

THE JOINT COMMITTEE OF THE FUEL AND POWER INDUSTRIES

The use of VHF Middle-Band Radio for Alarm/Telecontrol Purposes

The establishment of radio alarm/telecontrol systems, for oil and gas cable pressure alarms, icing of power line conductors, tap changing etc, on existing VHF middle-band mobile radio systems is now becoming more commonplace within the power industries.

The object of this memorandum is to outline the main conditions that are acceptable to the Home Office when seeking approval of such a system; they are as follows:

- 1 That the use of these systems is on an infrequent basis,
- 2 The tone signals are of short duration and should be of a preferred format, eg ~~namely~~ ZVEI and EEA.
- 3 The tone signalling system should be self-cancelling after a suitable period of time, say 3 mins.
- 4 Directional aerials are to be used, a 3 element Yagi aerial being the minimum specification.
- 5 The erp to be limited to a maximum of 5 watts, but where possible the minimum erp to give an acceptable service, should be used.
- 6 The grid reference (6 figure) should be supplied for each fixed alarm/telecontrol outstation.
- 7 As these systems make use of existing mobile radio channels a further proviso is added by the Home Office that additional channels will not be assigned because of increased loading on a channel brought about by radio alarms.

If the use of alarms conforms to the above conditions 1 - 7 then it is only necessary to add these to the mobile radio licence schedule.

Requests for any further information regarding this memorandum should be addressed to:

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